A.2575-22

# AMERICAN PETROLEUM INSTITUTE
# U.S. REFINERY CAPACITY SHUTDOWN INOPERABLE
# 1981 THROUGH 1988

Finance, Accounting and Statistics Department

JULY 1989

American
Petroleum
Institute

## U.S. REFINERY CAPACITY SHUTDOWN INOPERABLE

| REFINERY | Location City | State | Crude Cp. B/CD Shutdown | Shut-down Date | Date of Last Operation | CHARGE (Barrels per) Vacuum Distil-lation | Thermal Operation | Catalytic Cracking (Fresh) |
|---|---|---|---|---|---|---|---|---|
| **PAD DISTRICT 1:** | | | | | | | | |
| 1. American Refining Group Inc. | Indianola | PA | 180 | 12/85 | 3/84 | - | - | - |
| 2. Amoco Oil Company | Baltimore | MD | 15,000 | 3/82 | 1/82 | - | - | - |
| 3. Ashland Oil Inc. | Buffalo | NY | 64,000 | 7/82 | 12/84 | 28,000 | - | 22,000 |
| " " " | " | " | | | | - | - | - |
| 4. Ashland Oil Inc. | Freedom | PA | 6,800 | 12/85 | 4/85 | 3,600 | - | - |
| 5. ATC Petroleum Inc. | Newington | NH | 13,400 | 12/81 | 7/81 | - | - | - |
| 6. Chevron U.S.A. Inc. | Baltimore | MD | 14,200 | 12/86 | 12/86 | 14,300 | - | - |
| 7. Elk Refining Co. (Pennzoil) | Falling Rock | WV | 5,600 | 1/83 | 12/82 | - | - | - |
| 8. Manatee Energy Company | Port Manatee | FL | 28,400 | 10/81 | 5/81 | - | - | - |
| 9. Mobil Oil Corporation | Buffalo | NY | 43,000 | 7/81 | 5/81 | 18,000 | - | 19,000 |
| 10. Quaker State Oil & Refg. Corp. | Emlenton | PA | 0 | 12/83 | 12/83 | 1,580 | - | - |
| 11. Seminole Refining Corporation | St. Marks | FL | 17,000 | 3/88 | 5/87 | 11,390 | - | - |
| 12. Virginia Oil & Refg. Co.,Inc. | Jonesville | VA | 1,000 | 12/87 | 8/87 | - | - | - |
| **Total** | | | 208,580 | | | 76,870 | - | 41,000 |
| **PAD District 2:** | | | | | | | | |
| 1. Allied Materials Corporation | Stroud | OK | 7,600 | 2/85 | 12/84 | 2,500 | - | - |
| 2. Amoco Oil Company | Wood River | IL | 104,000 | 10/81 | 5/81 | 34,000 | - | 38,000 |
| 3. Amoco Oil Company | Sugar Creek | MO | 104,000 | 6/82 | 5/82 | 40,000 | 14,000[1] | 42,000 |
| " " " | " " | " | | | | - | - | - |
| " " " | " " | " | | | | - | - | - |
| 4. Ashland Oil Inc. | Findlay | OH | 20,400 | 2/82 | 12/84 | 12,000 | - | - |
| 5. Ashland Oil Inc. | Louisville | KY | 25,200 | 12/84 | 4/82 | 13,000 | - | 10,000 |
| 6. BT Energy Corporation | Louisville | KY | 3,000 | 11/85 | 11/84 | - | - | - |
| 7. Champlin Petroleum Company | Enid | OK | 53,800 | 12/83 | 6/83 | 16,500 | 7,000[1] | 20,000 |
| 8. Chevron U.S.A. Inc. | Cincinnati | OH | 43,700 | 8/86 | 5/86 | - | - | 18,000 |
| " " " | " | " | | | | - | - | - |
| 9. Conoco Inc. | Wrenshall | MN | 23,500 | 9/81 | 5/81 | 9,000 | - | 9,500 |
| 10. CRA, Inc. | Scottsbluff | NE | 5,600 | 6/82 | 5/82 | 2,400 | - | - |
| 11. Dillman Oil Recovery Inc. | Oblong | IL | 1,200 | 2/82 | 1/81 | - | - | - |
| 12. Dow Chemical U.S.A. | Bay City | MI | 20,000 | 9/81 | 5/80 | - | - | - |
| 13. E-Z Serv Refining Inc. | Shallow Water | KS | 9,500 | 2/82 | 4/81 | - | - | - |
| 14. Energy Cooperative Inc. | East Chicago | IN | 126,000 | 6/82 | 5/81 | 55,000 | - | 45,000 |
| " " " | " " | " | | | | - | - | - |
| 15. Energy Development Inc. | Crossville | IL | 1,000 | 4/81 | 2/81 | - | - | - |
| 16. Flying J Petroleum, Inc. | Williston | ND | 4,600 | 12/87 | 8/84 | - | 1,500[6] | - |
| " " " " | " | " | | | | - | - | - |
| 17. Gladieux Refinery Inc. | Fort Wayne | IN | 19,000 | 6/86 | 12/85 | - | - | - |
| 18. Gulf Oil Corporation | Toledo | OH | 50,300 | 11/81 | 6/81 | 12,500 | - | 19,800 |
| " " " | " | " | | | | - | - | - |
| 19. Hudson Refining Company Inc. | Cushing | OK | 19,000 | 11/83 | 12/82 | - | - | 7,500 |
| 20. Indiana Refining Inc. | Princeton | IN | 5,000 | 2/81 | 12/80 | - | - | - |
| 21. Indust. Fuel & Asph./Ind. Inc. | Hammond | IN | 7,600 | 6/82 | 12/81 | - | - | - |
| 22. Kentucky Oil & Refining | Betsy Lane | KY | 600 | 11/88 | 2/81 | - | - | - |
| 23. Lakeside Refining Co. | Kalamazoo | MI | 5,600 | 12/87 | 9/85 | - | - | - |
| 24. Mid-America Refg. Co. Inc. | Chanute | KS | 3,000 | 7/82 | 3/81 | - | - | - |
| 25. Motor Oils Refining | McCook | IL | 1,500 | 2/88 | 1/88 | 1,200 | - | - |
| 26. Northland Oil & Refining Co. | Dickinson | ND | 5,000 | 2/82 | 2/81 | - | - | - |
| 27. Oklahoma Refining Company | Cyril | OK | 12,750 | 12/84 | 12/84 | 2,600 | - | 7,500 |
| " " " | " | " | | | | - | - | - |
| 28. Okmulgee Refining Company | Okmulgee | OK | 25,000 | 12/82 | 6/82 | 3,200 | - | 8,000 |
| 29. Phillips Petroleum Company | Kansas City | KS | 80,000 | 9/82 | 8/82 | 23,500 | - | 33,500 |
| " " " | " | " | | | | - | - | - |
| 30. Texaco Inc. | Lawrenceville | IL | 79,000 | 12/85 | 4/85 | 25,000 | - | 34,000 |
| 31. Texaco Inc. | Lockport | IL | 72,000 | 10/81 | 4/81 | 15,000 | 27,000[1] | 30,000 |
| " " | " | " | | | | - | - | - |
| 32. Texas American Petrochem. Inc. | West Branch | MI | 11,500 | 2/82 | 9/81 | - | - | - |
| 33. Tonakawa Refining Company | Arnett | OK | 12,000 | 9/84 | 6/84 | - | - | 6,000 |
| 34. Tosco Corporation | Duncan | OK | 47,000 | 12/84 | 6/83 | 30,000 | 11,500[1] | 27,000 |
| 35. Wireback Oil Company | Plymouth | IL | 1,800 | 3/81 | 2/81 | - | 1,800[5] | - |
| **Total** | | | 1,010,750 | | | 297,400 | 62,800 | 355,800 |

1981 through 1988, COMPLETE REFINERIES

| CAPACITY (Stream Day) | | | PRODUCTION CAPACITY (Barrels per Stream Day) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Catalytic Cracking (Recycle) | Catalytic Reforming | Catalytic Cracking | Catalytic Hydro-refining | Catalytic Hydro-treating | Alkylation | Asphalt | Aromatics/ Isomerization | Lubes | Hydrogen (MMCFD) | Coke |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | 11,500 | - | - | - | - |
| - | 11,000[2] | - | 14,000[9] | 11,000[4] | 2,000 | 5,500 | 2,200 | - | - | - |
| - | - | - | 1,200[3] | - | - | - | 4,000[8] | - | - | - |
| - | - | - | - | - | - | - | - | 1,400 | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | 11,300 | - | - | - | - |
| - | 2,000[2] | - | - | - | - | - | - | 1,326 | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| 6,000 | 11,500[2] | - | - | 12,500[4] | - | - | - | - | - | - |
| - | 800[2] | - | - | - | - | - | - | 2,200 | - | - |
| - | - | - | - | - | - | 9,860 | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| 6,000 | 25,300 | - | 15,200 | 23,500 | 2,000 | 38,160 | 6,200 | 4,926 | - | - |
| - | - | - | - | - | - | 2,500 | - | 1,000 | - | - |
| 4,000 | 14,000[13] | - | - | 17,000[4] | 5,500 | 10,800 | - | - | - | - |
| 12,000 | 16,000[13] | - | - | 2,500[4] | 5,000 | 6,500 | - | - | - | 4,000 |
| - | - | - | - | 38,000[3] | - | - | - | - | - | - |
| - | - | - | - | 21,000[4] | - | - | - | - | - | - |
| - | - | - | - | - | - | 6,500 | - | - | - | - |
| - | 3,000[2] | - | - | 3,000[4] | - | 3,500 | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | 15,000[2] | - | - | - | 4,500 | - | 6,000[8] | - | - | 1,300 |
| - | 11,000[2] | - | - | 11,200[4] | 6,000 | - | - | - | - | - |
| - | - | - | - | 6,000[3] | - | - | - | - | - | - |
| - | 3,600[2] | - | - | 3,600[4] | - | - | - | - | - | - |
| 500 | - | - | 750[13] | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| 5,000 | 20,000[2] | - | 18,000[9] | 20,000[4] | 6,000 | 9,000 | - | - | - | - |
| - | - | - | 27,000[3] | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | 2,000[14] | - | - | 950[9] | - | - | 1,560[8] | - | - | - |
| - | - | - | - | 1,000[4] | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| 2,000 | 11,000[2] | - | - | 5,500[3] | 5,500 | 3,000 | - | - | - | - |
| - | - | - | - | 11,000[4] | - | - | - | - | - | - |
| - | 4,650[13] | - | - | - | 2,400 | - | - | - | - | 2,000 |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | 150 | - | 1,200 | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| 1,000 | 4,000[2] | - | - | 2,000[4] | 1,300 | 1,100 | - | - | - | - |
| - | - | - | - | 6,000[4] | - | - | - | - | - | - |
| 2,000 | - | - | - | - | 1,500 | 1,800 | - | - | - | - |
| 16,700 | 21,000[2] | - | - | 32,000[3] | 9,500 | 6,200 | - | 2,900 | - | - |
| - | - | - | - | 30,000[4] | - | - | - | - | - | - |
| 10,000 | 24,000[2] | - | - | 5,000[3] | 6,600 | 2,700 | - | - | - | - |
| 9,000 | 19,000[2] | - | - | 16,000[3] | 8,000 | - | - | - | - | 1,500 |
| - | - | - | - | 20,000[4] | - | - | - | - | - | - |
| - | 2,000[13] | - | - | 1,200[3] | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | 8,000[2] | - | - | 8,500[4] | 5,500 | - | - | - | - | 3,000 |
| - | - | - | - | - | - | - | - | - | - | - |
| 62,200 | 178,250 | - | 45,750 | 261,450 | 67,300 | 53,750 | 7,560 | 5,100 | - | 11,800 |

## U.S. REFINERY CAPACITY SHUTDOWN INOPERABLE

| Refinery | Location City | State | Crude Cp. B/CD Shutdown | Shut-down Date | Date of last Operation | CHARGE (Barrels per Vacuum Distil-lation | Thermal Operation | Catalytic Cracking (Fresh) |
|---|---|---|---|---|---|---|---|---|
| PAD DISTRICT 3: | | | | | | | | |
| 1. Adobe Refining Company | La Balanca | TX | 5,200 | 12/81 | 11/81 | - | - | - |
| 2. Amber Refining Inc. | Ft. Worth | TX | 19,700 | 12/88 | 12/85 | 3,500 | - | - |
| " " " | " " | " | | | | - | - | - |
| 3. Bayou State Oil Corp. | Hosston | LA | 3,000 | 3/82 | 1/81 | - | - | - |
| 4. Brio Refining Inc. | Friendswood | TX | 12,500 | 12/82 | 9/82 | - | - | - |
| 5. Bronco Refining Company | Houston | TX | 2,250 | 7/82 | 4/81 | - | - | - |
| 6. Carbonit Refining Inc. | Hearne | TX | 11,000 | 12/81 | 2/81 | - | - | - |
| 7. Caribou-Four Corners, Inc. | Farmington | NM | 2,200 | 8/84 | 5/82 | - | - | - |
| 8. Celeron Oil & Gas Company | Mermentau | LA | 11,000 | 8/84 | 2/83 | - | - | - |
| 9. Clark Oil & Refining Corp. | Mt. Airy | LA | 0 | 12/87 | 12/86 | 11,000 | 16,000[7] | - |
| 10. Clinton-Manges | Palestine | TX | 6,000 | 7/82 | 7/81 | - | - | - |
| 11. Conoco Inc. | Alvin | TX | 33,274 | 12/85 | 10/85 | - | - | - |
| 12. Copano Refining Company | Ingleside | TX | 11,100 | 2/82 | 9/81 | - | - | - |
| 13. Damson Gas Processing Corp. | White Deer | TX | 0 | 5/85 | 2/85 | - | - | - |
| 14. Dow Chemical U.S. | Freeport | TX | 190,000 | 6/82 | 8/81 | - | - | - |
| " " " | " | " | | | | - | - | - |
| 15. Dorchester Refining Co. | Mt. Pleasant | TX | 26,500 | 12/84 | 9/84 | 14,000 | - | 9,600 |
| " " " | " " | " | | | | - | - | - |
| 16. Eagle Refining Corp. | Jacksboro | TX | 1,800 | 7/82 | 3/81 | - | - | - |
| 17. Eddy Refining Company | Houston | TX | 3,250 | 11/84 | 10/84 | - | - | - |
| 18. Erickson Refining Corp. | Port Neches | TX | 30,000 | 8/83 | 12/81 | - | - | - |
| 19. Evangeline Refining Co. | Jennings | LA | 4,500 | 12/82 | 12/82 | - | - | - |
| 20. Flint Chemical Company | San Antonio | TX | 1,500 | 3/85 | 1/85 | - | - | - |
| 21. GAMXX Energy Inc. | Theodore | AL | 27,000 | 3/88 | 1/88 | - | - | - |
| 22. Giant Industries Inc. | Farmington | NM | 13,500 | 11/82 | 5/82 | - | - | - |
| 23. Gulf Oil Corporation | Venice | LA | 28,700 | 12/81 | 4/81 | - | - | - |
| 24. Independent Refining Corp. | Winnie | TX | 50,000 | 8/83 | 10/81 | 20,000 | 6,000[7] | - |
| 25. Liquid Energy Corporation | Bridgeport | TX | 10,000 | 10/88 | 2/87 | - | - | - |
| 26. Longview Refining Company | Longview | TX | 14,000 | 4/82 | 12/81 | 4,000 | - | - |
| " " " | " | " | | | | - | - | - |
| 27. MacMillan Petroleum Co. | Norphlet | AR | 5,800 | 12/87 | 8/87 | 2,700 | - | - |
| 28. Mallard Resources Inc. | Gueydan | LA | 7,400 | 12/83 | 11/83 | - | - | - |
| 29. McTan Refining Corporation | St. James | LA | 19,300 | 8/83 | 7/81 | - | - | - |
| 30. Mid-Gulf Energy Corp. | Ingleside | TX | 39,400 | 5/84 | 10/83 | 20,000 | - | - |
| 31. Natchez Refining Company | Natchez | MS | 16,000 | 9/82 | 6/82 | - | - | - |
| 32. OGC Corporation | Egan | LA | 5,000 | 10/88 | 9/87 | - | - | - |
| 33. Petromax Refining Co.,Inc. | Houston | TX | 2,000 | 5/86 | 9/85 | - | - | - |
| 34. Petraco-Valley Oil &_Refg. | Brownsville | TX | 12,300 | 12/83 | 3/83 | - | - | - |
| 35. Placid Oil Company | Mont Belvieu | TX | 8,500 | 7/82 | 1/82 | - | - | - |
| 36. Port Petroleum Inc. | Stonewall | LA | 3,200 | 2/84 | 12/83 | - | - | - |
| 37. Quintana Petrochemical Co. | Corpus Christi | TX | 33,300 | 9/84 | 7/84 | 8,000 | - | - |
| 38. Quitman Refining Company | Quitman | TX | 6,600 | 6/82 | 4/82 | - | - | - |
| 39. Rio Grande Crude Refining | Brownsville | TX | 9,500 | 6/82 | 6/81 | - | - | - |
| 40. Rio Grande Recovery System | Brownsville | TX | 1,000 | 2/82 | 5/81 | - | - | - |
| 41. Schulze Processing Inc. | Tallulah | LA | 1,760 | 8/82 | 5/81 | - | - | - |
| 42. Shepard Oil Company | Jennings | LA | 10,000 | 2/82 | 5/81 | - | - | - |
| 43. Shore, Inc. | Kilgore | TX | 550 | 7/83 | 3/83 | - | - | - |
| 44. Sooner Refining Company | Darrow | LA | 8,000 | 2/83 | 1/82 | - | - | - |
| " " " | " | " | | | | - | - | - |
| " " " | " | " | | | | - | - | - |
| 45. Southern Union Refining Co. | Lovington | NM | 36,100 | 11/84 | 8/84 | 10,000 | - | - |
| 46. Southern Union Refining Co. | Monument | NM | 5,400 | 10/81 | 1/81 | - | - | - |
| 47. Southland Oil Company | Yazoo City | MS | 5,500 | 7/81 | 2/81 | 3,080 | - | - |
| 48. T & S Refining Company | Jennings | LA | 10,500 | 3/82 | 7/81 | - | - | - |
| 49. Tesoro Petroleum Corp. | Carrizo Springs | TX | 26,100 | 12/84 | 7/84 | - | - | - |
| 50. Texaco Refg. & Mktg. Inc. | Amarillo | TX | 20,000 | 12/85 | 4/85 | - | 4,000[1] | 8,000 |
| 51. Texas Napco Inc. | St. James | LA | 17,000 | 12/88 | 8/83 | 20,000 | - | - |
| 52. Texas Refining Company | Midland | TX | 2,500 | 6/81 | 4/81 | - | - | - |
| 53. Texas Standard Refining | Houston | TX | 1,800 | 10/81 | 1/81 | - | - | - |
| 54. Thriftway Oil Company | Graham | TX | 1,184 | 11/83 | 4/81 | - | - | - |
| 55. Tipperary Refining Company | Ingleside | TX | 7,320 | 3/82 | 1/82 | - | - | - |
| 56. Tropicana Energy Co.(TARCO) | Euless | TX | 4,650 | 12/85 | 12/83 | - | - | - |
| 57. Wickett Refining Company | Wickett | TX | 8,000 | 2/82 | 1/76 | - | - | - |
| Total | | | 853,638 | | | 116,280 | 26,000 | 17,600 |

1981 THROUGH 1988, COMPLETE REFINERIES

| CAPACITY (Stream Day) | PRODUCTION CAPACITY (Barrels per Stream Day) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Catalytic Cracking (Recycle) | Catalytic Reforming | Catalytic Hydro-cracking | Catalytic Hydro-refining | Catalytic Hydro-treating | Alkylation | Asphalt | Aromatics/ Isomerization | Lubes | Hydrogen (MMCFD) | Coke |
| - | - | - | - | - | - | - | - | - | - | - |
| 2,600 | 1,700[15] | - | - | 6,400[4] | 300 | - | - | - | - | - |
| - | 3,500[14] | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | 1,200[2] | - | - | 1,200[4] | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | 1,000[13] | - | - | - | - | - | - | - | - | - |
| - | - | - | 63,000[10] | - | - | - | - | - | 65 | - |
| - | - | - | 80,000[3] | - | - | - | - | - | - | - |
| 2,200 | 3,500[2] | - | - | 6,000[3] | 2,200 | 9,000 | - | - | - | - |
| - | - | - | - | 3,500[4] | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | 5,000[14] | - | - | 5,000[4] | - | - | 4,000 | - | - | - |
| - | 5,000[13] | - | - | - | - | - | - | - | - | - |
| - | 18,000[2] | 11,500 | - | 16,800[4] | - | - | - | - | - | - |
| - | 16,000[2] | 3,000 | - | 18,000[4] | - | - | 300 | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | 4,000[2] | - | - | 4,000[4] | - | - | 2,000[8] | - | - | - |
| - | - | - | - | 2,000[3] | - | - | - | - | - | - |
| - | - | - | - | - | - | 1,660 | - | 2,300 | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | 18,000[2] | 10,000 | - | 18,000[4] | - | - | 5,500 | - | 25 | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 2,800[11] | - | - | - | - | - | - | - |
| - | - | - | 28,000[3] | - | - | - | - | - | - | - |
| - | - | - | 1,400[5] | - | - | - | - | - | - | - |
| - | - | - | - | 8,500[3] | - | 1,500 | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | 2,632 | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | 3,500[2] | - | - | - | - | - | - | - | - | - |
| 2,400 | 5,000[2] | - | - | 5,000[4] | 1,500 | - | - | - | - | 500 |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| 7,200 | 85,400 | 24,500 | 175,200 | 94,400 | 4,000 | 14,792 | 11,800 | 2,300 | 90 | 500 |

## U.S. REFINERY CAPACITY SHUTDOWN INOPERABLE

| REFINERY | City | Location State | Crude Cp. B/CD Shutdown | Shut-down Date | Date of Last Operation | CHARGE (Barrels per Vacuum Distil-lation | Thermal Operation | Catalytic Cracking (Fresh) |
|---|---|---|---|---|---|---|---|---|
| **PAD DISTRICT 4:** | | | | | | | | |
| 1. C & H Refinery Inc. | Lusk | WY | 180 | 2/82 | 1/81 | - | - | - |
| 2. Caribou-Four Corners Inc. | Woods Cross | UT | 8,400 | 12/84 | 12/82 | 2,000 | - | - |
| 3. Flying J Petroleum Inc. | Cutbank | MT | 5,600 | 2/88 | 3/83 | | 2,200[5] | - |
| " " " " | " | " | | | | - | - | - |
| 4. Glacier Park Company | Osage | WY | 10,000 | 3/82 | 2/81 | - | - | - |
| 5. Glenrock Refinery Inc. | Glenrock | WY | 6,000 | 9/81 | 4/81 | - | - | - |
| 6. Husky Oil Company | Cody | WY | 11,500 | 9/82 | 6/82 | 6,900 | - | 4,000 |
| " " " | " | " | | | | - | - | - |
| 7. Kenco Refining Inc. | Wolf Point | MT | 4,700 | 12/85 | 10/85 | - | - | - |
| 8. Morrison Petroleum Company | Woods Cross | UT | 6,000 | 12/85 | 12/85 | - | - | - |
| 9. Mountaineer Refining Co., Inc. | La Barge | WY | 350 | 6/88 | 12/87 | - | - | - |
| 10. Sage Creek Refining Company | Crowley | WY | 1,000 | 6/82 | 1/82 | - | - | - |
| 11. Silver Eagle Oil Company | La Barge | WY | 3,000 | 12/87 | 10/82 | - | - | - |
| 12. Southwestern Refining Company | La Barge | WY | 1,040 | 8/81 | 4/81 | - | - | - |
| 13. Texaco Inc. | Casper | WY | 21,000 | 7/82 | 3/82 | 10,500 | 4,000[5] | 7,000 |
| **Total** | | | **78,770** | | | **19,400** | **6,200** | **11,000** |
| **PAD District 5:** | | | | | | | | |
| 1. Anchor Refining | McKittrick | CA | 9,000 | 2/84 | 11/82 | 7,000 | - | - |
| 2. Arizona Fuels Corporation | Fredonia | AZ | 6,000 | 9/83 | 2/83 | - | - | - |
| 3. Beacon Oil Company | Hanford | CA | 17,300 | 12/87 | 11/87 | - | 2,750[7] | - |
| " " " | " | " | | | | - | 350[6] | - |
| 4. Chevron U.S.A. Inc. | Bakersfield | CA | 26,000 | 7/86 | 4/86 | - | - | - |
| 5. Coastal Petroleum Refiners Inc. | Bakersfield | CA | 10,000 | 12/85 | 6/85 | - | - | - |
| 6. Demenno-Kerdoon | Compton | CA | 10,000 | 8/83 | 1/83 | 2,000[e] | - | - |
| 7. ECO Petroleum Inc. | Long Beach | CA | 0 | 3/84 | 7/81 | 7,000 | - | - |
| 8. Golden Eagle Refining Co., Inc. | Carson | CA | 16,170 | 2/85 | 11/84 | - | - | - |
| 9. Quad Refining Corporation | Bakersfield | CA | 7,000 | 10/81 | 8/80 | - | - | - |
| 10. Road Oil Sales Inc. | Bakersfield | CA | 6,000 | 12/81 | 1/81 | - | - | - |
| 11. Sabre Refining, Inc. | Bakersfield | CA | 10,000 | 9/87 | 12/86 | - | - | - |
| 12. Tosco Corporation | Bakersfield | CA | 38,800 | 11/84 | 11/83 | 23,500 | 7,000[12] | 12,000 |
| 13. United Independent Oil Company | Tacoma | WA | 730 | 3/82 | 7/80 | - | - | - |
| 14. USA Petrochemical Corporation | Ventura | CA | 24,000 | 12/84 | 12/84 | - | - | - |
| 15. West Coast Oil Company | Oildale | CA | 5,000 | 10/88 | 10/85 | - | - | - |
| 16. Western Oil & Refining | Long Beach | CA | 19,200 | 12/87 | 2/84 | - | - | - |
| **Total** | | | **205,200** | | | **39,500** | **10,100** | **12,000** |
| **133 Grand Total:** | | | **2,356,938** | | | **549,450[e]** | **105,100** | **437,400** |

[e]Estimated.

[1]Delayed Coking
[2]Bi-Metallic
[3]Distillate
[4]Naphtha/Reformer Feeds
[5]Other
[6]Gas Oil
[7]Visbreaking
[8]C5 and C6
[9]Heavy Gas Oil
[10]Residual
[11]C4
[12]Fluid Coking
[13]Conventional
[14]High Pressure
[15]Low Pressure

Sources: DOE, Petroleum Supply Annuals, Volume 1, various other DOE publication and Public Announcements.

1981 THROUGH 1988, COMPLETE REFINERIES

| CAPACITY (Stream Day) | | | | | PRODUCTION CAPACITY (Barrels per Stream Day) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Catalytic Cracking (Recycle) | Catalytic Reforming | Catalytic Hydro-cracking | Catalytic Hydro-refining | Catalytic Hydro-treating | Alkylation | Asphalt | Aromatics/ Isomerization | Lubes | Hydrogen (MMCFD) | Coke |
| - | - | - | - | - | - | - | - | - | - | - |
| - | 2,500[2] | 1,200 | - | 2,500[4] | - | - | - | - | - | - |
| - | 2,300[14] | - | - | 2,300[4] | - | - | - | - | - | - |
| - | - | - | - | 900[3] | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| 1,200 | 1,800[2] | - | - | 1,800[4] | 800 | 4,500 | - | - | - | - |
| - | - | - | - | 2,100[3] | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| 2,000 | 4,000[2] | - | 4,000[9] | 4,000[4] | - | 1,500 | - | - | - | 625 |
| 3,200 | 10,600 | 1,200 | 4,000 | 13,600 | 800 | 6,000 | - | - | - | 625 |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | 3,630[14] | - | - | 5,000[4] | - | 1,030 | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | 6,000[2] | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | 4,550 | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | 16,500[2] | 14,000 | - | 7,000[4] | 2,000 | - | - | - | 20 | 1,250 |
| - | - | - | - | - | - | - | - | - | - | - |
| - | 7,000[2] | - | - | - | - | - | - | - | 11 | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | 33,130 | 14,000 | - | 12,000 | 2,000 | 5,580 | - | - | 31 | 1,250 |
| 78,600 | 332,680 | 39,700 | 240,150 | 404,950 | 76,100 | 118,282 | 25,560 | 12,326 | 121 | 14,175 |

## REFINERIES REACTIVATED SINCE 1982

| DOE/ PSA | Refinery | Location | State | Crude Oil Distillation Capacity | Date of Shutdown | Date of Reactivation |
|---|---|---|---|---|---|---|
| 1983 | Caribou-Four Corners Inc. | Farmington | NM | 2,200 | 6/82 | 12/83 |
| | Coastal Petroleum Company | Paloma | CA | 10,000 | 1/83 | 12/83 |
| | Flying J Inc. | Williston | ND | 3,580 | 1/83 | 12/83 |
| | Gibson Oil & Refining Company | Bakersfield | CA | 3,000 | 4/82 | 12/83 |
| | Sinclair Oil Corporation (Formerly Texaco Inc.) | Tulsa | OK | 50,000 | 7/82 | 11/83 |
| | Tropicana Energy Company (Formerly TARCO) | Euless | TX | 4,650 | 3/82 | 12/83 |
| | West Coast Oil Company | Oildale | CA | 19,000 | 2/82 | 12/83 |
| 1984 | Amerada Hess Corporation | Port Reading | NJ | 68,000 | 12/83 | 12/84 |
| 1985 | Barrett Refining Corporation (Formerly Oklahoma Refining Company) | Thomas | OK | 9,300 | 12/84 | 12/85 |
| | Hill Petroleum Company | Krotz Springs | LA | 55,300 | 11/84 | 4/85 |
| | Leaf Petroleum Corporation (Formerly Pioneer Refining LTD) | Nixon | TX | 16,397 | 12/83 | 1/86 |
| | Sabre Refining Inc. | Bakersfield | CA | 10,000 | 11/82 | 1/86 |
| | Silver Eagle Oil Company | La Barge | WY | 2,500 | 8/83 | 1/86 |
| | Seminole Refining Corporation | St. Marks | FL | 17,000 | 4/82 | 5/85 |
| | South Hampton Refining Company | Silsbee | TX | 20,250 | 12/84 | 1/86 |
| 1986 | Augusta Refinery (Formerly Mobil Oil Corporation) | Augusta | KS | 0 | 9/83 | 5/86 |
| | City Gas & Transmission Corporation (Formerly ATC Petroleum Inc.) | Wilmington | NC | 10,000 | 1/82 | 12/86 |
| | Hill Petroleum Company (Formerly International Processors) | St. Rose | LA | 32,000 | 2/85 | 6/86 |
| | Powerine Oil Company | Santa Fe Springs | CA | 33,400 | 8/84 | 12/86 |
| | Warrior Asphalt Refining Corporation (Formerly Warrior Asphalt Company) | Holt | AL | 5,000 | 12/84 | 10/86 |
| | Western Oil & Refining Inc. (Formerly Marlex Oil & Refining Co.) | Long Beach | CA | 19,200 | 3/84 | 12/86 |
| 1987 | Donna Refinery Partners, LTD (Formerly Listo Refining Company) | Donna | TX | 4,750 | 12/82 | 9/87 |
| | GAMXX Energy Inc. (Formerly Marion Corporation) | Theodore | AL | 27,000 | 9/83 | 6/87 |
| | Petro Source Resources, Inc. (Formerly Vicksburg Refining Inc.) | Vicksburg | MS | 6,000 | 9/85 | 4/87 |
| | Trans America Refining Company (Formerly GHR Energy Corporation) | Good Hope | LA | 300,000 | 9/83 | 11/87 |
| 1988 | American International Refining Inc. (Formerly Lake Charles Refining Co.) | Lake Charles | LA | 27,000 | 1/82 | 1/89 |
| | Western Slope Refining Company (Formerly Gary Refining Corporation) | Fruita | CO | 15,200 | 10/85 | 1/89 |

Source: DOE, Petroleum Supply Annuals, Volume I.



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